

TENTATIVE
DATA**NSL-703P
SILICON PHOTOVOLTAIC CELL**

NSL-703 P is a high output, self-generating n on p silicon photocell. Its fast response makes it ideal for computer, control and instrument applications.

The NSL-703 P is sensitive to the whole visible spectrum and to the near infrared, corresponding very closely in response to the output of an incandescent lamp. It is best used with a low impedance load such as encountered in the input of most transistor amplifier circuits.

The current output of this cell is extremely stable over the period of years, it is not affected by moisture and, therefore, hermetically sealed construction is not required.

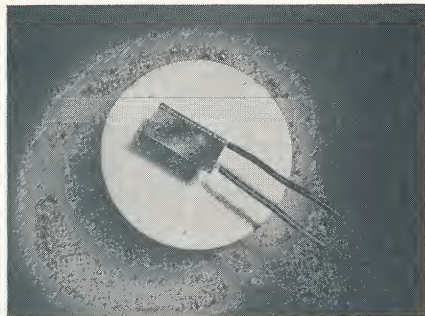


FIG. 1 - NSL-703P ACTUAL SIZE

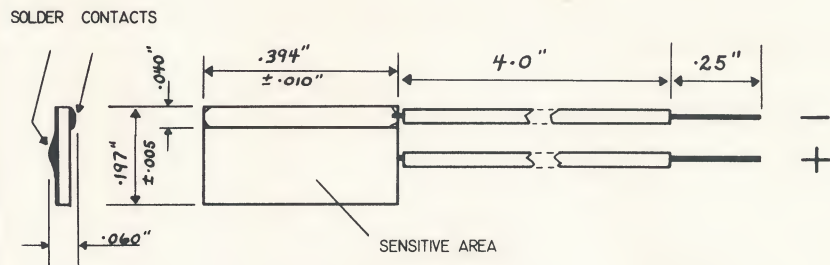


FIG. 2 - OUTLINE DIMENSIONS

GENERAL DESCRIPTION

Construction.....	Rectangular silicon chip, plastic coated.
Leads.....	No. 30 stranded copper wire applied with 60/40 solder, vinyl ins. 4" long.
Mounting.....	Epoxy cement to any surface.
Special Mounting	Special mounting to customer's specifications can be provided.

PHOTOELECTRIC CHARACTERISTICS

Short circuit current (500 Ftc 2800° K)	1500 ua min.
Open circuit voltage (500 Ftc 2800° K).....	0.42 volts min.
Current at 1K Ohm load (500 Ftc 2800° K).....	400 ua min.
Current at 1K Ohm load (100 Ftc 2800° K).....	200 ua min.
Maximum reverse current (dark) at .5 v applied	25 ua
Maximum reverse current (dark) at 1.0 v applied	50 ua
Maximum applied reverse voltage.....	2 volts
Speed of response (depends on circuit resistance).....	15 Microseconds
Spectral response (useful range).....	0.4 - 1.1 Microns
Spectral response (peak)85 Microns
Maximum operating temperature range.....	-65° C to + 150° C

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